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Patent/Publication: JP2000130101A**DWPI Title**

Four-cycle internal combustion engine in which the ratio of the throw of eccentric of a crankpin to the pitch circle radius of an external tooth gearwheel to the pitch circle radius of an internal gear is set to one is to two is to three

Drawing**Original Title**

FOUR-STROKE INTERNAL COMBUSTION ENGINE

Abstract

PROBLEM TO BE SOLVED: To provide a four-stroke internal combustion engine in which engine efficiency is drastically improved and exhaust gas is cleaned by making use of pressure energy of combustion gas as much as possible.

SOLUTION: A four-stroke internal combustion engine is provided with an internal gear 20 provided concentrically with a crank main shaft 11 and fixed to a frame 90, an external gear 30 to be rotated while being in internal-contact with the internal gear 20 and rotatably supported on a crank pin 12, a circular eccentric cam 40 integrally formed with the external gear 30 and supported on the crank pin 12, a connecting rod 60 fixed to a ring 50 rotatably fitted on the outer periphery of the circular eccentric cam 40, a piston 70 rotatably connected to the connecting rod 60, and a cylinder 80 in which the piston 70 is so fitted as to be slid. The ratio of the eccentric distance P0 of the crank pin 12 to the pitch circle radius P1 of the external gear 30 to and the pitch circle radius P2 of the internal gear 20 is 1:2:3.

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First Claim

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IPC

Current IPC	Invention	Version	Additional	Version
Full	F01B 9/02	20060101	-	-
	F02B 75/04	20060101	-	-
	F16C 3/06	20060101	-	-
	F16C 3/18	20060101	-	-
	F16C 7/00	20060101	-	-
Main Group	-	-	-	-
Subclass	-	-	-	-
Original IPC	Invention	Version	Additional	Version
Advanced/Full	F02B 75/04	20060101	-	-
Core/Main Group	F02B 75/00	20060101	-	-
Subclass	-	-	-	-